

<b>FACSIMILE TRANSMITTAL FORM</b>	Application Number	10/014268	<b>RECEIVED CENTRAL FAX CENTER</b>  OCT 07 2005
	Filing Date	October 22, 2001	
	First Named Inventor	Debe, Mark K.	
	Art Unit	3754	
	Examiner Name	Joseph A. Kaufman	
Fax: 571-273-8300	Attorney Docket Number	52955US011	
Total Number of Pages in This Submission: 10			
Date: September 7, 2005	Attorney for Applicant: Philip Y. Dahl		

<b>ENCLOSURES (check all that apply)</b>			
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Issue Fee Transmittal <input type="checkbox"/> Amendment Transmittal	<input type="checkbox"/> Petition   	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences	
<input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/Declaration(s)	<input type="checkbox"/> Petition to Convert a Provisional Application   	<input type="checkbox"/> Appeal Communication to Technology Center (Appeal Notice, Brief, Reply Brief)	
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Proprietary Information	
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Status Letter	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> <b>Other Enclosures:</b> Statement under 37 CFR 3.73(b) (3 pages) Recordation of Assignment from Inventor to MMM (3 pages) Recordation of Assignment from MMM to 3MIPC (3 Pages)	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR § 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts under 35 USC 371 in US Designated/ Elected Office (DO/EO/US)	<input type="checkbox"/> Request for Refund   <input type="checkbox"/> Request for Continued Examination (RCE) Transmittal		
<input type="checkbox"/> Drawings	<input type="checkbox"/> After Allowance Communication to Technology Center		
<b>REMARKS:</b>			

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PTO/SB/80 (04-05)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

Practitioners associated with the Customer Number:

32692



OR

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

The address associated with Customer Number:

32692



OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone			Email

Assignee Name and Address:

3M Innovative Properties Company  
P.O. Box 33427  
St. Paul, MN 55133-3427

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

**SIGNATURE of Assignee of Record**

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	10/07/05
Name	Robert W. Sprague	Telephone	651-733-4247
Title	Secretary, 3M Innovative Properties Company		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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CENTRAL FAX CENTER32692  
Customer Number

OCT 07 2005

Patent  
Case No.: 52955US011

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: DEBE, MARK K.

Application No.: 10/014268, which is a Divisional  
of 08/748,701, filed on November  
13, 1996, now abandoned.

Filed: October 22, 2001

Examiner: Joseph A.  
Kaufman

Title: STORAGE AND DELIVERY OF GASES IN PRESSURIZED MICROBUBBLES

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## CERTIFICATE OF MAILING OR TRANSMISSION (37 CFR § 1.8(a))

I hereby certify that this correspondence is being:

- deposited with the United States Postal Service on the date shown below  
with sufficient postage as first class mail in an envelope addressed to:  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
- transmitted by facsimile on the date shown below to the United States  
Patent and Trademark Office at 571-273-8300.

October 7, 2005

Date: October 7, 2005

Signed by: Phyllis J. Boettcher

## STATEMENT UNDER 37 CFR § 3.73(b)

The undersigned states that 3M Innovative Properties Company, a corporation organized and existing under the laws of the State of Delaware, United States of America, is:

1.  the assignee of the entire right, title, and interest; or
2.  an assignee of less than the entire right, title, and interest in the patent application/patent identified above. The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- B.  A chain of title from the inventor(s) of the patent application/patent identified above, to the current assignee is shown below:
  1.  From the inventors to 3M Company (formerly Minnesota Mining and Manufacturing Company). The document was recorded in the United States Patent and Trademark Office at Reel 8374, Frame 0859, or for which a copy thereof is attached.

2.  From 3M Company (formerly Minnesota Mining and Manufacturing Company) to 3M Innovative Properties Company. The document was recorded in the United States Patent and Trademark Office at Reel 012602, Frame 0422, or for which a copy thereof is attached.

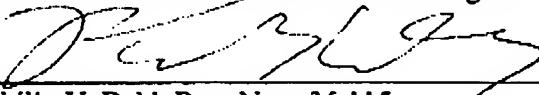
Copies of the following documents are enclosed:

1.  Power of Attorney to Prosecute Applications before the USPTO and Correspondence Address Indication Form.
2.  Copies of assignments or other documents in the chain of title.

The undersigned Practitioner of Record is authorized to act on behalf of the assignee.

10/7/05  
Date: October 7, 2005

By:

  
Philip Y. Dahl, Reg. No.: 36,115  
Telephone No.: 651-737-4029

Office of Intellectual Property Counsel  
3M Innovative Properties Company  
Facsimile No.: 651-736-3833



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APRIL 26, 1997

PTAS

MINNESOTA MINING AND MANUFACTURING CO.  
LORRAINE R. SHERMAN  
OFFICE OF INTELLECTUAL PROPERTY COUNSEL  
P.O. BOX 33427  
ST. PAUL, MN 55133-3427



\*100368709A\*

3M OFFICE OF  
INTELLECTUAL  
PROPERTY COUNSEL

MAY 9 5 1997

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/13/1996

REEL/FRAME: 8374/0859  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

## ASSIGNOR:

DEBE, MARK K.

DOC DATE: 11/13/1996

## ASSIGNEE:

MINNESOTA MINING AND MANUFACTURING COMPANY  
P.O. BOX 33427  
ST. PAUL, MINNESOTA 55133-3427

SERIAL NUMBER: 08748701

FILING DATE: 11/13/1996  
ISSUE DATE:

PATENT NUMBER:

ANNIE HARRELL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

**NO PATENT ASSIGN!**

03-07-1997

**08/748701****VER SHEET**

6892 U.S. PTO

**To the Honorable Commission:**

100358709

arks:

03/06/97

**Please record the attached original document or copy thereof.**

1. Name of conveying party(ies):  
Mark K. Debe

2. Name and address of receiving party(ies)

Minnesota Mining and Manufacturing Company  
P.O. Box 33427  
St. Paul, Minnesota 55133-3427

Additional names of conveying party(ies) attached?  
 Yes     No

3. Nature of conveyance:  Assignment

Execution Date **November 13, 1996**

4. Application number or patent number:

This document is being filed with a new patent application or patent on November 13, 1996  
 This document is to be recorded against the following patent application or patent:

5. Name and address of party to whom correspondence concerning document should be mailed:

Lorraine R. Sherman  
Minnesota Mining and Manufacturing Company  
Office of Intellectual Property Counsel  
P.O. Box 33427  
St. Paul, Minnesota 55133-3427

6. Total number of applications and patents involved:

**1**

7. Total fee (37 CFR 3.41) . . . \$40.00

Previously submitted  
 Enclosed

8.  Please charge any additional fees or credit any overpayment to Deposit Account No. 13-3723.

**DO NOT USE THIS SPACE****9. Statement and signature.**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Lorraine R. Sherman  
Printed Name of Attorney

Lorraine R. Sherman  
Signature

November 13, 1996  
Date

Total number of pages including cover sheet, attachments, and document:

**2**

Docket No. 52955USA9A

ASSIGNMENT

Whereas I, the below named inventor, with residence and citizenship as indicated below, have made an invention in

**STORAGE AND DELIVERY OF GASES IN PRESSURIZED MICROBUBBLES**  
and have contemporaneously executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto the MINNESOTA MINING AND MANUFACTURING COMPANY (sometimes designated as the Minnesota Mining & Manufacturing Company), a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during my employment by the said Company or within one year thereafter), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made.

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by the said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

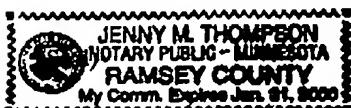
And I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said Minnesota Mining and Manufacturing Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, I have hereunto signed my name on the day and year set forth below.

Mark Kevitt Debe  
Residence: Stillwater, Minnesota, USA  
Citizenship: United States of America

STATE OF MINNESOTA )  
) ss.  
COUNTY OF RAMSEY )

On this 13<sup>th</sup> day of November 13 19<sup>th</sup>, before me personally appeared the above-named Mark Kevitt Debe, personally known by me, and known by me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed, on the day and year aforesaid.

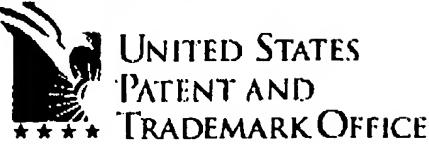


Jenny M. Thompson  
Notary Public

INTEL PROP 220 10W

651 736 6133

10/07/05 10:41 :08/10 NO:930  
10/07/05 10:41 :08/10 NO:930



APR 29 2002

P. Y. DAHL

APRIL 19, 2002

PTAS

Chief Financial Officer and Chief Administrative Officer  
Washington, DC 20231  
[www.uspto.gov](http://www.uspto.gov)

3M INNOVATIVE PROPERTIES COMPANY  
PHILIP Y. DAHL  
P.O. BOX 33427  
ST. PAUL, MN 55133-3427

CHIEF FINANCIAL OFFICER  
PHILIP Y. DAHL  
3M INNOVATIVE PROPERTIES COMPANY

CHIEF FINANCIAL OFFICER  
PHILIP Y. DAHL  
3M INNOVATIVE PROPERTIES COMPANY

APR 26 2002

101994369A\*



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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012602/0422

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MINNESOTA MINING AND MANUFACTURING COMPANY, A CORPORATION OF THE STATE OF DELAWARE

ASSIGNEE:

3M INNOVATIVE PROPERTIES COMPANY  
P.O. BOX 33427  
ST. PAUL, MINNESOTA 55133-3427

SERIAL NUMBER: 10014268  
PATENT NUMBER:

FILING DATE: 10/22/2001  
ISSUE DATE:

LAZENA MARTIN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

02-27-2002



Docket No.: 52955US011

101994369

To: The Honorable Commissioner of Patents and Trademarks  
 Please record the attached original document(s) or copy thereof.

## 1. Name of conveying party(ies)

(Execution Date)

January 7, 2002

Minnesota Mining and  
 Manufacturing Company,  
 a Corporation of the State of Delaware Z-1Z-02

Additional names of conveying party(ies) attached?

 Yes  No

## 3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name

Other: \_\_\_\_\_

If this is a request for correction of a previously recorded document, a copy of the previously recorded assignment and previous Notice of Recordation is enclosed.

## 4. Application number or patent number:

This document is being filed with a new patent application on \_\_\_\_\_  
 This document is to be recorded against the following patent application or patent: 10/014,268.  
 Patent Cooperation Treaty (PCT):  
 Enter PCT application number only if a U.S. Application Number has not been assigned: \_\_\_\_\_

Additional Numbers Attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Philip Y. Dahl  
 Office of Intellectual Property Counsel  
 3M Innovative Properties Company  
 P.O. Box 33427  
 St. Paul, Minnesota 55133-3427

Phone Number: 651-737-4029

## 6. Total number of applications and patents involved:

1

## 7. Total fee (37 CFR 3.41) \$40.00

Enclosed  
 Authorized to be charged to deposit account

## 8. Deposit Account Number: 13-3723

DO NOT USE THIS SPACE

## 9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Philip Y. Dahl

Printed Name of Attorney/Agent  
 Registration No. 36,115

Signature

Date

1/21/02

Pages: Total number of pages including COVER SHEET, attachments and documents: \_\_\_\_\_

Mail documents to be recorded with required cover sheet information to:  
 Commissioner for Patents, Box Assignments, Washington, DC 20231

(Form PTO 1595 - Modified from PTO's Rev 03/01)  
 q:\tmp\pc\frm\1595\1595m\1595m.intelligent recordation cover sheet - num to ipo - new.doc 4/26/01

02/27/2002 070111 00060073 133723 10014268

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Docket No. 52955US011

## ASSIGNMENT

ASSIGNOR: MINNESOTA MINING AND MANUFACTURING COMPANY  
 of: PO Box 33427  
 St. Paul, Minnesota 55133-3427  
 United States of America

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 OCT 07 2005

a corporation organized and existing under the laws of the State of Delaware, United States of America does hereby claim and declare that it is the owner of all right, title and interest in and to the following Patent Application(s) or letters Patents(s) and other rights and powers obtainable or exercisable in respect thereof as numbered in United States Patent(s) and /or Patent Application(s):

Patent Application or Patent Number  
 10/014,268

Filing Date or Issue Date  
 October 22, 2001

Minnesota Mining and Manufacturing Company does hereby, for good and valuable consideration, effective as of April 1, 1999 received, sell, assign and transfer unto:

ASSIGNEE: 3M INNOVATIVE PROPERTIES COMPANY  
 of: PO Box 33427  
 St. Paul, Minnesota 55133-3427  
 United States of America

a corporation organized and existing under the laws of the State of Delaware, United States of America, its entire right, title and interest in and to the said Patent Application(s) or Letters Patent(s) including any division, continuation (in whole or in part) reissue or reexamination thereof, and in and to any countries foreign thereto, and consent to the recordal of this Assignment.

## ASSIGNOR

Subscribed and Sworn:

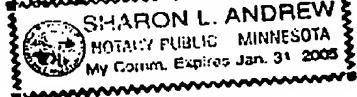
At St. Paul, Minnesota 55133-3427

this 7th day of January, 2002.MINNESOTA MINING AND  
MANUFACTURING COMPANY.

By: Douglas B. Little  
 Name: Douglas B. Little  
 Its: Assistant Chief Intellectual  
Property Counsel

Subscribed and sworn to before me this  
7th day of January, 2002.

Sharon L. Andrew  
 Notary Public



## ASSIGNEE

Accepted:

At St. Paul, Minnesota 55133-3427

this 8th day of January, 2002.

3M INNOVATIVE PROPERTIES COMPANY

By: Gary L. Griswold

Name: Gary L. Griswold  
 Its: President and Chief Intellectual Property Counsel

Subscribed and sworn to before me this

8th day of January, 2002.

Jean S. Kistler  
 Notary Public

